TITLE:

POLYNUCLEOTIDE AND POLYPEPTIDE SEQUENCES OF CANINE

CATHEPSIN S

INVENTORS:

THURMOND, et al.

APP NO.

N/A

ATTY: John W. Wallen, III

DOCKET NO.: ORT-1458

TELEPHONE: (858) 784-3239

Figure 1

1 atgaaatggc tagttgggct gcttccgttg tgctcctatg cagtggcaca agtacataaa 61 gateceaete tggateatea etggaatete tggaagaaaa eetacagcaa acaatacaag 121 gaagagaatg aggaagtagc acggcgtctc atctgggaaa aaaatctaaa atttgtgatg 181 cttcacaatc tggaacactc aatgggaatg cattcatatg atctaggcat gaaccatctg 241 ggagacatga ctggtgaaga agtgatatct ttgatgggtt ccctgagagt tcccagccaa 301 tggcagagaa atgtcactta taggtcaaac tctaatcaga aattgcctga ttctgtggac 361 tggagagaga agggctgtgt tactgaagtg aaataccagg gttcttgtgg tgcttgttgg 421 gettteageg etgtggggge eetggaagea eaactgaage taaaaacagg aaagetggtg 481 tetetgagtg cacagaactt ggtagattge teaactgaaa aatatgggaa taaaggetge 541 aatggcggtt tcatgacaac tgctttccag tatattattg ataacaacgg cattgattca 601 gaagetteet ateeetacaa ageeatgaat ggaaagtgea gatatgaete aaaaaagega 661 gctgccacat gttcaaagta tactgaactt ccctttggca gtgaagatgc cttaaaagaa 721 gctgtggcca ataaaggacc tgtgtctgtg gctatagatg cgagccacta ttctttcttc 781 ctgtacagaa gtggtgtcta ctatgaacca tcctgtactc agaatgtgaa tcatggagta 841 ttagtggttg gctatggtaa ccttaatggg aaagactact ggcttgtgaa aaacagctgg 901 ggcctcaact ttggtgacca aggatatatt cggatggcaa gaaacagtgg aaatcactgt 961 gggattgcta gttatccctc ttacccagaa atctag

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Figure 2

MET LYS TRP LEU VAL GLY LEU LEU PRO LEU CYS SER TYR ALA VAL ALA GLN VAL HIS LYS ASP PRO THR LEU ASP HIS HIS TRP ASN LEU TRP LYS LYS THR TYR SER LYS GLN TYR LYS GLU GLU ASN GLU GLU VAL ALA ARG ARG LEU ILE TRP GLU LYS ASN LEU LYS PHE VAL MET LEU HIS ASN LEU GLU HIS SER MET GLY MET HIS SER TYR ASP LEU GLY MET ASN HIS LEU GLY ASP MET THR GLY GLU GLU VAL ILE SER LEU MET GLY SER LEU ARG VAL PRO SER GLN TRP GLN ARG ASN VAL THR TYR ARG SER ASN SER ASN GLN LYS LEU PRO ASP SER VAL ASP TRP ARG GLU LYS GLY CYS VAL THR GLU VAL LYS TYR GLN GLY SER CYS GLY ALA CYS TRP ALA PHE SER ALA VAL GLY ALA LEU GLU ALA GLN LEU LYS LEU LYS THR GLY LYS LEU VAL SER LEU SER ALA GLN ASN LEU VAL ASP CYS SER THR GLU LYS TYR GLY ASN LYS GLY CYS ASN GLY GLY PHE MET THR THR ALA PHE GLN TYR ILE ILE ASP ASN ASN GLY ILE ASP SER GLU ALA SER TYR PRO TYR LYS ALA MET ASN GLY LYS CYS ARG TYR ASP SER LYS LYS ARG ALA ALA THR CYS SER LYS TYR THR GLU LEU PRO PHE GLY SER GLU ASP ALA LEU LYS GLU ALA VAL ALA ASN LYS GLY PRO VAL SER VAL ALA ILE ASP ALA SER HIS TYR SER PHE PHE LEU TYR ARG SER GLY VAL TYR TYR GLU PRO SER CYS THR GLN ASN VAL ASN HIS GLY VAL LEU VAL VAL GLY TYR GLY ASN LEU ASN GLY LYS ASP TYR TRP LEU VAL LYS ASN SER TRP GLY LEU ASN PHE GLY ASP GLN GLY TYR ILE ARG MET ALA ARG ASN SER GLY ASN HIS CYS GLY ILE ALA SER TYR PRO SER TYR PRO GLU ILE

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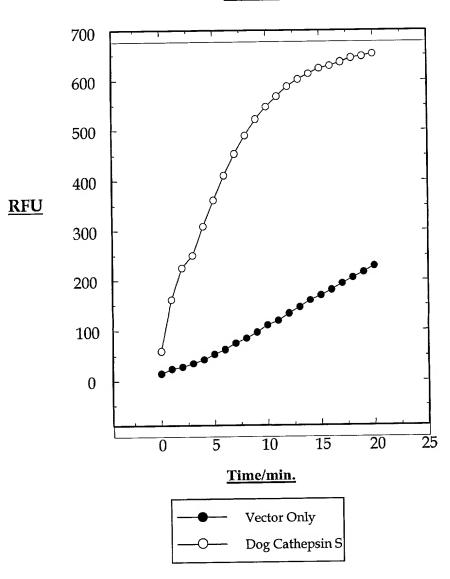
John W. Wallen, III

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Figure 3



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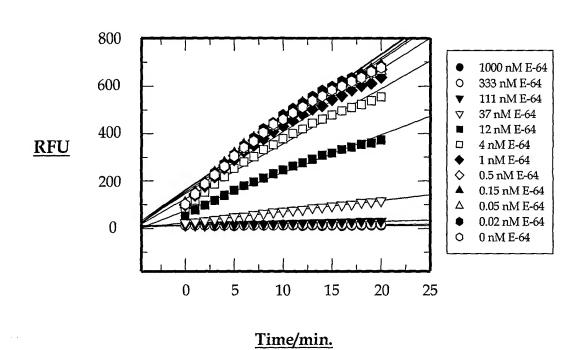
N/A

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Figure 4
Panel A



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Figure 4
Panel B

